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APPENDIX OF PENDING CLAIMS

1. A method for extending the survival of an organ transplant in a recipient, said method comprising:

contacting cells of an organ transplant with a nucleic acid that modulates heme oxygenase-I activity in said cells, whereby the survival time of said organ transplant is extended.

- 2. The method according to Claim 1, wherein said nucleic acid molecule encodes a polypeptide having heme oxygenase-I activity.
- 3. The method according to Claim 2, wherein said nucleic acid has at least about 80% sequence identity to nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1).
- 4. The method according to Claim 2, wherein said nucleic acid comprises nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1).
 - 5. The method according to Claim 1, wherein said contacting is ex vivo.
 - 6. The method according to Claim 1, wherein said contacting is *in vivo*.
 - 7. The method according to Claim 1, wherein said organ transplant is an

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allograft.

8. The method according to Claim 7, wherein said allograft is a heart.

9. The method according to Claim 1, wherein said contacting is with a liposome-

mediated nucleic acid transfer vehicle.

10. The method according to Claim 1, wherein said contacting is with a viral-

mediated nucleic acid transfer vehicle.

11. The method according to Claim 1, wherein said contacting is accomplished by

direct injection of said nucleic acid into said organ.

12. The method according to Claim 1, wherein the heme oxygenase-I activity in

said cells is increased.

13. A method for extending the survival of an organ transplant in a recipient, said

method comprising:

contacting cells of said organ transplant with a nucleic acid encoding a polypeptide

having heme oxygenase-I activity, wherein said nucleic acid molecule is expressed in said

cells in an amount sufficient to increase heme oxygenase-I activity therein, whereby the

survival time of said transplant is extended.

14. The method according to Claim 13, wherein said nucleic acid molecule has at

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least about 80% sequence identity to nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1).

- 15. The method according to Claim 13, wherein said nucleic acid molecule comprises nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1).
 - 16. The method according to Claim 13, wherein said contacting is ex vivo.
 - 17. The method according to Claim 13, wherein said contacting is *in vivo*.
- 18. The method according to Claim 13, wherein said organ transplant is an allograft.
 - 19. The method according to Claim 18, wherein said allograft is a heart.
- 20. The method according to Claim 13, wherein said contacting is with a liposome-mediated nucleic acid transfer vehicle.
- 21. The method according to Claim 13, wherein said contacting is with a viral-mediated nucleic acid transfer vehicle.
- 22. The method according to Claim 13, wherein said contacting is accomplished by direct injection of said nucleic acid molecule into said organ.

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26. (New) The method according to claim 13, wherein said nucleic acid molecule encodes a polypeptide with at least about 80% amino acid sequence identity with the polypeptide encoded by nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1).

27. (New) The method according to claim 13, wherein said nucleic acid molecule has at least about 80% sequence identity to nucleotides 81-944 of the human heme oxygenase-I nucleic acid sequence shown in Figure 3 (SEQ ID NO:1) and which encodes a polypeptide having at least about 80% amino acid sequence homology to human heme oxygenase-I polypeptide encoded by said nucleotides 81-944.